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Indian Standard (Reaffirmed 2012)

SPECIFICATION FOR FISHING HOOKS

PART I BARBED HOOKS

1. Scope — This standard covers material, types, size, dimensions and testing load requirements of barbed hooks used for fishing purposes.

2. Terminology — The names of the various parts of a fishing hook are given in Fig. 1.

3. Material — The hooks shall be manufactured from steel of grade SW or VW conforming to IS : 4454 (Part II) - 1975 'Specification for steel wires for cold formed springs: Part II Oil hardened and tempered spring steel wire and valve spring wire — unalloyed (*first revision*)'. The hooks shall be suitably hardened and tempered.

4. Types — The fishing hooks are produced in many shapes. They are either ringed or flattened. The shapes and dimensions of the eyes and flattened shank end are shown in Fig. 2.

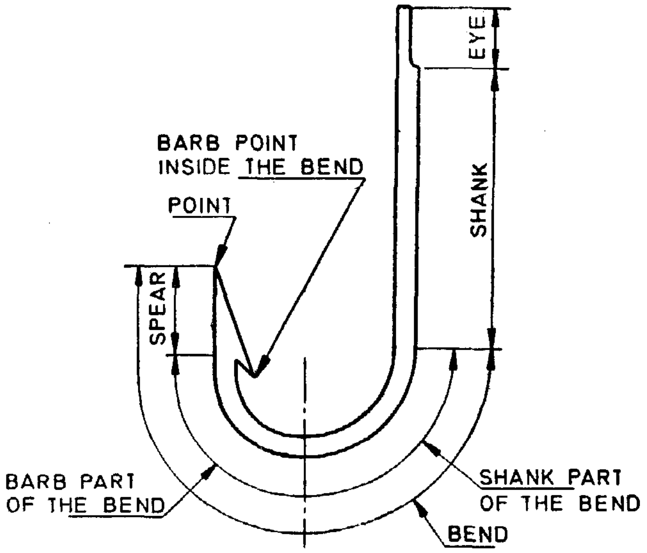

FIG. 1 FISHING HOOK

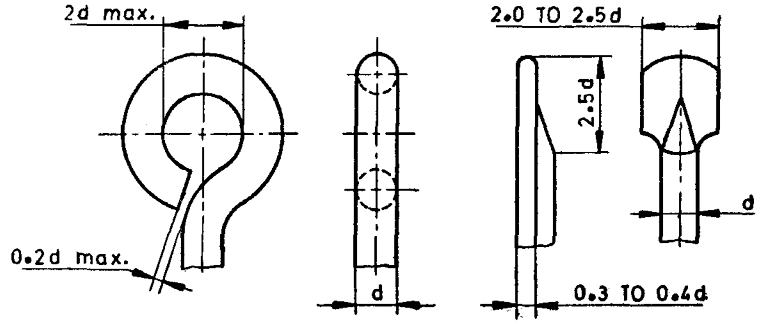

FIG. 2 EYES AND FLAT ENDS OF FISHING HOOK

4.1 The hooks conforming to this standard shall be of the following types and are shown in Tables 1 to 7.

a) Single straight flat hooks (Table 1),
b) Single straight ringed hooks (Table 2),
c) Single kirbed flat hooks (Table 3),
d) Single kirbed ringed hooks (Table 4),

Fishing Vessels Sectional Committee, MCPD 21 [Ref : Doc : MCPD 21 (337)]

Adopted 30 June 1981

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e) Double round hooks (Table 5),
f) Treble hooks (Table 6), and
g) Single kirbed turned down ringed hooks (Table 7).

5. Requirements — The dimensions of parts and testing load requirement of the different types of hooks shall be as given in Tables 1 to 7.

6. Designation — Fishing hooks shall be designated by its type, size, wire diameter, length and number of this Indian Standard.

Example:

A fishing hook of single kirbed flat type of size 8·5, wire diameter 0·8 mm and length 18 mm shall be designated as:

Fishing hook, single kirbed flat, 8·5, 0·8, 18, IS : 9860 (Part 1)

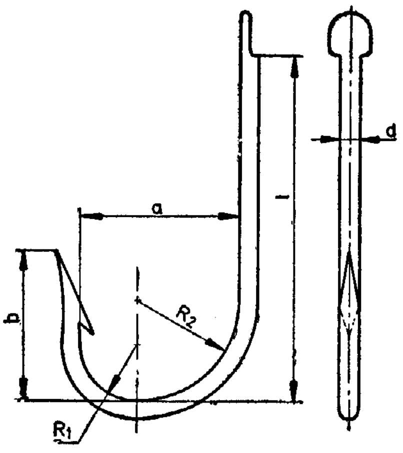
7. Marking — The products shall be marked with the following particulars:

a) Manufacturer's identity,
b) Size,
c) Wire diameter,
d) Hook length, and
e) Test load.

7.1 *ISI Certification Marking* — Details available with the Indian Standards Institution.

TABLE 1 SINGLE STRAIGHT FLAT HOOKS

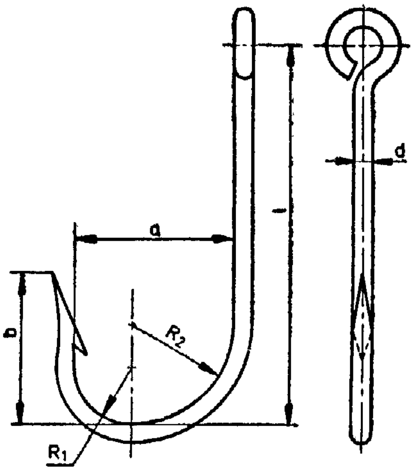
[*Clauses* 4.1(*a*) *and* 5]



Size of Hook	Gap, *a*	Wire Diameter, *d*	Length of Hook, *l*	Bite, *b*	Bend Radius		Testing Load
					R_1	R_2	
(1)	(2) mm	(3) mm	(4) mm	(5) mm	(6) mm	(7) mm	(8) kg
2·5	2·5±0·2	0·4	8	2·5—0·4	0·3	2·2	0·6
3·5	3·5±0·2	0·45	10	3·5—0·4	0·3	3·2	0·8
4	4 ±0·2	0·5	12	3·5—0·4	0·4	3·6	1·1
5	5 ±0·2	0·5	12	4·5—0·5	0·5	4·5	1·2
5	5 ±0·2	0·6	14	4·5—0·5	0·5	4·5	1·8
6	6 ±0·3	0·5	12	5·0±0·5	0·7	5·3	1·0
6	6 ±0·3	0·6	14	5·0—0·5	0·7	5·3	1·7
6	6 ±0·3	0·7	18	5·0+0·5	0·7	5·3	2·6
7	7 ±0·3	0·6	12	6·0+0·5	0·8	6·2	1·5
7	7 ±0·3	0·8	20	6·0+0·5	0·8	6·2	3·4
8·5	8·5±0·3	0·8	18	8·0+0·5	0·9	7·6	2·8
8·5	8·5±0·3	0·9	26	8·0—0·5	0·9	7·6	4·0
10	10 ±0·3	0·8	16	8·5—0·5	1·2	8·8	2·4
10	10 ±0·3	0·9	22	8·5—0·5	1·2	8·8	3·4
12	12 ±0·4	1·0	26	10·5—0·5	1·3	10·7	3·8
14	14 ±0·4	1·6	40± 1·0	12·5—0·5	1·5	12·5	13·0
18	18 ±0·5	1·8	45± 1·0	16·5—0·5	2·0	16·0	14·0
20	20 ±0·5	2·0	47± 1·0	18·5—0·5	2·2	17·8	18·0
26	26 ±0·8	2·5	100± 1·0	24·5—0·5	3·0	23·0	26·0
40	40 ± 1·0	3·0	110	38·5—0·5	4·5	35·6	33·0
45	45 ± 1·2	4·0	120	43·0—0·5	5·0	40·0	65·0
50	50 ± 1·2	4·5	125	48·0—0·5	5·6	44·4	80·0

TABLE 2 SINGLE STRAIGHT RINGED HOOKS

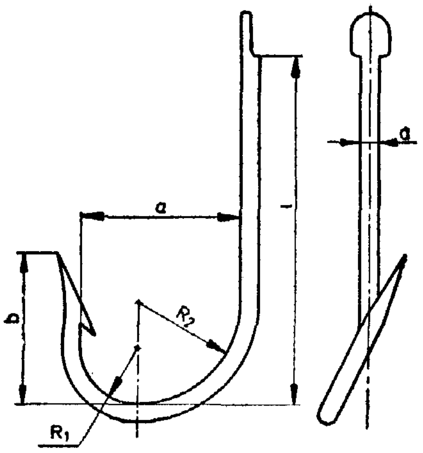
[*Clauses* 4.1(b) *and* 5]



Size of Hook (1)	Gap, *a* (2)	Wire Diameter, *d* (3)	Length of Hook, *l* (4)	Bite, *b* (5)	Bend Radius		Testing Load (8)
					R_1 (6)	R_2 (7)	
	mm	mm	mm	mm	mm	mm	kg
2·5	2·5±0·2	0·4	8±0·5	2·5±0·4	0·3	2·2	0·6
3·5	3·5±0·2	0·45	10±0·5	3·5—0·4	0·3	3·2	0·8
4	4 ±0·2	0·5	12±0·5	3·5—0·5	0·4	3·6	1·1
5	5 ±0·2	0·5	10±0·5	4·5—0·5	0·5	4·5	1·2
5	5 ±0·2	0·6	14±0·5	4·5—0·5	0·5	4·5	1·8
6	6 ±0·3	0·05	12±0·5	5·0—0·5	0·7	5·3	1·0
6	6 ±0·3	0·6	14±0·5	5·0—0·5	0·7	5·3	1·7
6	6 ±0·3	0·7	16±0·5	5·0—0·5	0·7	5·2	2·6
7	7 ±0·3	0·6	12±0·5	6·0—0·5	0·8	6·2	1·5
7	7 ±0·3	0·8	20±0·5	6·0—0·5	0·8	6·2	3·4
8·5	8·5±0·3	0·8	18±0·5	8·0—0·5	0·9	7·6	3·8
8·5	8·5±0·3	0·9	26±0·5	8·0—0·5	0·9	7·6	4·0
10	10 ±0·3	0·9	22±0·5	8·5—0·5	1·2	8·8	3·4
12	12 ±0·3	1·0	26±0·5	10·5—0·5	1·3	10·7	3·8
12	12 ±0·3	1·2	35±0·5	10·5—0·5	1·3	10·7	6·5
14	14 ±0·5	1·4	22±0·5	12·0—0·5	1·6	12·4	9·0
14	14 ±0·5	1·6	40±0·5	12·0—0·5	1·6	12·4	9·0
16	16 ±0·5	1·6	42±0·5	14·0—0·5	1·8	14·2	11·0
18	18 ±0·5	1·8	45±0·5	16·0—0·5	2·0	16·0	14·0
20	20 ±0·5	2·0	47±0·5	18·0—0·5	2·2	17·8	18·0

TABLE 3 SINGLE KIRBED FLAT HOOKS

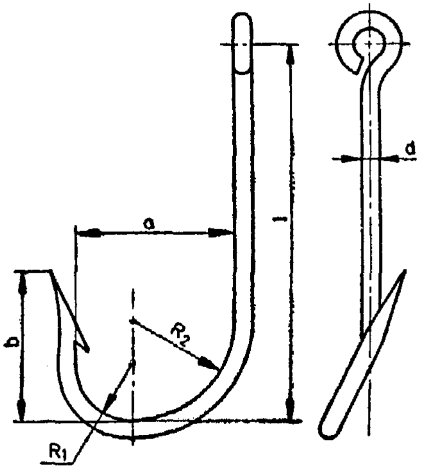
[*Clauses* 4.1(c) *and* 5]



Size of Hook (1)	Gap, *a* (2)	Wire Diameter, *d* (3)	Length of Hook, *l* (4)	Bite, *b* (5)	Bend Radius *R*1 (6)	 *R*2 (7)	Testing Load (8)
	mm	mm	mm	mm	mm	mm	kg
2·5	2·5± 0·2	0·4	8± 0·3	2·5—0·4	0·3	2·2	0·6
3·5	3·5± 0·2	0·45	10± 0·3	3·5—0·4	0·3	3·2	0·8
5·0	5·0± 0·2	0·5	12± 0·3	4·5—0·5	0·5	4·5	1·2
5·0	5·0± 0·2	0·6	14± 0·3	4·5—0·5	0·5	4·5	2·0
6·0	6·0± 0·3	0·5	12± 0·3	4·5—0·5	0·7	5·3	1·0
6·0	6·0± 0·3	0·6	14± 0·3	5·0—0·5	0·7	5·3	1·7
6·0	6·0± 0·3	0·7	18± 0·3	5·0—0·5	0·7	5·3	2·6
7·0	7·0± 0·3	0·6	12± 0·3	6·0—0·5	0·8	6·2	1·5
7·0	7·0± 0·3	0·7	16± 0·3	6·0—0·5	0·8	6·2	2·3
7·0	7·0± 0·3	0·8	20± 0·3	6·0—0·5	0·8	6·2	3·4
8·5	8·5± 0·3	0·8	18± 0·3	8·0—0·5	0·9	7·6	2·8
8·5	8·5± 0·3	0·9	26± 0·3	8·0—0·5	0·9	7·6	4·0
10	10 ± 0·3	0·8	16± 0·3	8·5—0·5	1·2	8·8	2·4
10	10 ± 0·3	0·9	22± 0·3	8·5—0·5	1·2	8·8	3·4
12	12 ± 0·4	1·0	26± 0·3	10·5—0·5	1·3	10·7	3·8
12	12 ± 0·4	1·4	30± 0·3	10·5—0·5	1·3	10·7	10·0
14	14 ± 0·4	1·6	40± 0·3	12·5—0·5	1·5	12·5	12·0
18	18 ± 0·5	2·0	50± 1·0	16·5—0·5	2·0	16·0	19·0
20	20 ± 0·5	3·0	50± 1·0	18·5—0·5	2·2	17·8	50·0
22	22 ± 0·5	3·5	55± 3·0	20 —0·5	2·5	19·7	85·0
26	26 ± 0·5	3·5	60± 1·0	24 —0·5	3·0	23·0	75·0
30	30 ± 0·8	4·0	72± 1·0	28 —0·5	4·4	35·6	90·0

TABLE 4 SINGLE KIRBED RINGED HOOKS

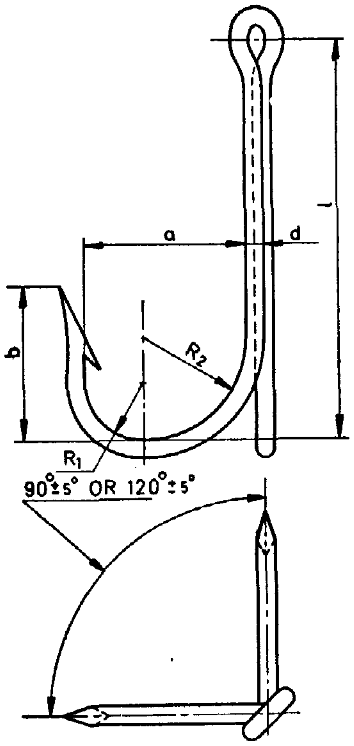
[*Clauses* 4.1(d) *and* 5]



Size of Hook	Gap, *a*	Wire Diameter, *d*	Length of Hook, *l*	Bite, *b*	Bend Radius		Testing Load
					R_1	R_2	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	mm	mm	mm	mm	mm	mm	kg
2·5	2·5±0·2	0·4	8±0·5	2·5—0·4	0·3	2·2	0·6
3	3±0·2	0·4	14±0·5	3·0—0·5	0·3	2·7	0·9
3·5	3·5±0·2	0·45	10±0·5	3·0—0·5	0·3	3·2	0·9
4	4 ±0·2	0·5	12±0·5	3·0—0·5	0·4	3·6	1·1
4	4 ±0·2	0·5	16±0·5	3·0—0·5	0·4	3·6	1·1
4	4 ±0·2	0·6	14±0·5	3·0—0·5	0·4	3·6	1·4
5	5 ±0·2	0·5	12±0·5	4·5—0·5	0·5	4·5	1·1
5	5 ±0·2	0·6	16±0·5	4·5—0·5	0·5	4·5	2·0
5	5 ±0·2	0·6	22±0·5	4·5—0·5	0·5	4·5	2·0
6	6 ±0·3	0·6	14±0·5	5·0—0·5	0·7	5·3	1·7
6	6 ±0·3	0·7	18±0·5	5·0—0·5	0·7	5·3	2·6
6	6 ±0·3	0·7	26±0·5	5·0—0·5	0·7	5·3	2·6
7	7 ±0·3	0·6	12±0·5	6 —0·5	0·8	6·2	1·5
7	7 ±0·3	0·8	20±0·5	6 —0·5	0·8	6·2	2·3
7	7 ±0·3	0·6	22±0·5	6 —0·5	0·8	6·2	1·5
7	7±0·3	0·8	30±0·5	6 —0·5	0·8	6·2	3·4
8·5	8·5±0·3	0·7	14±0·5	8 —0·5	0·9	7·6	1·9
8·5	8·5±0·3	0·8	18±0·5	8 —0·5	0·9	7·6	2·8
8·5	8·5±0·3	0·9	26±0·5	8 —0·5	0·9	7·6	4·0
8·5	8·5±0·3	0·9	30±0·5	8 —0·5	0·9	7·6	4·0
8·5	8·5±0·3	1·2	35±0·5	8 —0·5	0·9	7·6	9·0
10	10 ±0·3	0·9	22±0·5	8·5—0·5	1·2	8·8	3·4
10	10 ±0·3	1·0	30±0·5	8·5—0·5	1·2	8·8	4·6
10	10 ±0·3	1·2	35±0·5	8·5—0·5	1·2	8·8	5·5
12	12 ±0·4	1·4	26±0·5	8·5—0·5	1·2	0·8	12
12	12 ±0·4	1·0	26±0·5	10·5—0·5	1·3	10·7	3·8
12	12 ±0·4	1·4	40±0·5	10·5—0·5	1·3	10·7	10
12	12 ±0·4	1·6	30±0·5	10·5—0·5	1·3	10·7	15
14	14 ±0·4	1·4	42±0·5	12 —0·5	1·5	12·5	9
14	14 ±0·4	1·8	35±0·5	12 —0·5	1·5	12·5	19
16	16 ±0·5	2	40±0·5	14 —0·5	1·6	14·4	22

TABLE 5 DOUBLE ROUND HOOKS

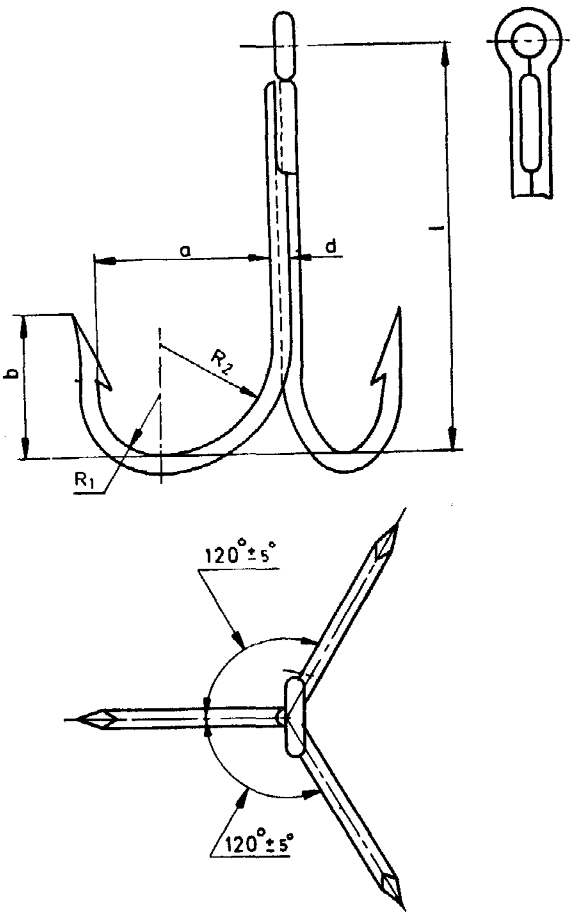
[*Clauses* 4.1(e) *and* 5]



Size of Hook	Gap, *a*	Wire Diameter, *d*	Length of Hook, *l*	Bite, *b*	Bend Radius		Testing Load
					R_1	R_2	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	mm	mm	mm	mm	mm	mm	kg
3·5	3·5± 0·2	0·45	10± 0·5	3·5—0·5	0·3	3·2	0·6
5	5·0± 0·2	0·5	10± 0·5	4·5—0·5	0·5	4·5	1·1
6	6·0± 0·3	0·7	12± 0·5	5 —0·5	0·6	5·4	2·6
6	6·0± 0·3	0·8	18± 0·5	5 —0·5	0·6	5·4	3·8
7	7·0± 0·3	0·9	22± 0·5	6 —0·5	0·7	6·3	4·8
8·5	8·5± 0·3	1·0	26± 0·5	8 —0·5	0·9	7·6	5·4
10	10 ± 0·3	1·2	30± 0·5	8·5—0·5	1·0	9·0	7·8
12	12 ± 0·4	1·2	22± 0·5	10·5—0·5	1·3	10·7	6·5
12	12 ± 0·4	1·4	35± 0·5	10·5—0·5	1·3	10·7	9·0
14	14 ± 0·4	1·6	30± 0·5	12·5—0·5	1·5	12·5	12·0
18	18 ± 0·5	2·0	40± 0·5	16·5—0·5	2·0	16·0	19·0

TABLE 6 TREBLE HOOKS

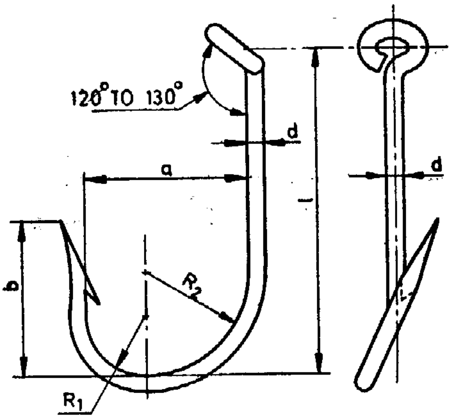
[*Clauses* 4.1(*f*) *and* 5]



Size of Hook (1)	Gap, *a* (2) mm	Wire Diameter, *d* (3) mm	Length of Hook, *l* (4) mm	Bite, *b* (5) mm	Bend Radius R_1 (6) mm	Bend Radius R_2 (7) mm	Testing Load (8) kg
3·5	3·5	0·45	10± 0·5	3·5—0·5	0·3	3·2	0·6
5	5 ±0·2	0·5	10± 0·5	4·5—0·5	0·5	4·5	1·1
6	6 ±0·3	0·7	12± 0·5	5·0—0·5	0·6	5·4	2·6
7	7 ±0·3	0·9	22± 0·5	6·0—0·5	0·7	6·3	4·8
8·5	8·5± 0·3	1·0	26± 0·5	8·0—0·5	0·9	7·6	5·4
10	10 ±0·3	1·2	30± 0·5	8·5—0·5	1·0	9·0	7·8
12	12 ±0·4	1·2	22± 0·5	10·5—0·5	1·3	10·7	6·5
12	12 ±0·4	1·4	35± 0·5	10·5—0·5	1·3	10·7	9·0
14	14 ±0·4	1·6	30± 0·5	12·5—0·5	1·5	12·5	12·0
18	18 ±0·5	2·0	40± 0·5	16·5—0·5	2·0	16·0	19·0

TABLE 7 SINGLE KIRBED TURNED DOWN RINGED HOOKS

[*Clauses* 4.1(*g*) *and* 5]



Size of Hook (1)	Gap, *a* (2) mm	Wire Diameter, *d* (3) mm	Length of Hook, *l* (4) mm	Bite, *b* (5) mm	Bend Radius R_1 (6) mm	Bend Radius R_2 (7) mm	Testing Load (8) kg
3·5	3·5—0·2	0·45	10—0·5	3·0—0·5	0·3	3·2	1·0
4	4 —0·2	0·5	12—0·5	3·0—0·5	0·4	3·6	1·4
5	5 —0·2	0·6	16—0·5	4·5—0·5	0·5	4·5	1·2
5	5 —0·2	0·7	18—0·5	4·5—0·5	0·5	4·5	2·4
6	6·0—0·3	0·6	12—0·5	5·0—0·5	0·7	5·3	1·7
6	6·0—0·3	0·7	14—0·5	5·0—0·5	0·7	5·3	2·0
7	7·0—0·3	0·7	16—0·5	6·0—0·5	0·8	6·2	2·3
7	7·0—0·3	0·8	20—0·5	6·0—0·5	0·8	6·2	3·4
8·5	8·5—0·3	0·8	18—0·5	8·0—0·5	0·9	7·6	2·8

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